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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/702,238	11/06/2003	Bradley J. Howard	97-0008.02	7948
75	90 08/25/2004		EXAM	INER
Richard D. Egan			LEE, SIN J	
O'KEEFE, EGA	N & PETERMAN			
Building C, Suite 200 1101 Capital of Texas Highway South Austin, TX 78746			ART UNIT	PAPER NUMBER
			1752	
			DATE MAILED: 08/25/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summers	10/702,238	HOWARD, BRADLEY J.				
Office Action Summary	Examiner	Art Unit				
The MAIL INC DATE CUI	Sin J. Lee	1752				
The MAILING DATE of this communication apprehension for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from	s will be considered timely. the mailing date of this communication.				
Status						
1)⊠ Responsive to communication(s) filed on 06 No	vember 2003.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex	k parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>55-100</u> is/are pending in the application						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>55-100</u> are subject to restriction and/or	election requirement					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accept		vaminor				
Applicant may not request that any objection to the di						
Replacement drawing sheet(s) including the correction						
11)☐ The oath or declaration is objected to by the Exa	miner. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign p	riority under 35 U.S.C. § 119(a)-	(d) or (f).				
a) All b) Some * c) None of:						
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
Copies of the certified copies of the priority Copies of the certified copies of the priority	nave been received in Application	n No				
 Copies of the certified copies of the priority application from the International Bureau (y documents have been received PCT Rule 17 2(a)\	In this National Stage				
* See the attached detailed Office action for a list of	the certified copies not received					
	Topico not received	,				
Attachment(s)						
) Notice of References Cited (PTO-892)	4) Interview Summary (F	PTO-413)				
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date	D				
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Pat 6) Other:	ent Application (PTO-152)				
Patent and Trademark Office						

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Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 55-58, 76-83, 87, drawn to a process of using a photo-definable layer in manufacturing a semiconductor device, classified in class 430, subclass 313.
 - II. Claims 62-70, drawn to a process for forming a self-aligned contact, classified in class 430, subclasses 314 and 317.
 - III. Claims 88-96, drawn to a process of using a photo-definable layer in a dual Damascene process, classified in class 430, subclass 312.
 - IV. Claims 59-61, 71-75, 84-86, 97-100, drawn to a semiconductor device, classified in class 430, subclass 319.
- 2. Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, the process of Invention II requires material deposition whereas Invention I does not require such step.
- 3. Inventions I and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, the process of Invention III requires multiple imaging (exposure) steps whereas Invention I does not require such step.

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- 4. Inventions II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, process of Invention II requires material deposition whereas Invention III does not require such step. Also, the process of Invention III requires multiple imaging (exposure) steps whereas Invention II does not require such step.
- 5. Inventions I and IV are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the semiconductor device in Invention IV can be made by using organic photoresist material and a separate insulative material instead of using the present photodefinable layer that is convertible to an insulative material.
- 6. Inventions II and IV are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the semiconductor device in Invention IV can be made by using organic photoresist material and a separate insulative material instead of using the present photodefinable layer that is convertible to an insulative material.

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- 7. Inventions III and IV are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the semiconductor device in Invention IV can be made by using organic photoresist material and a separate insulative material instead of using the present photodefinable layer that is convertible to an insulative material.
- 8. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 9. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II-IV (the search required for Group III is not required for Group I, II, IV; and the search required for Group IV is not required for Group I-III), restriction for examination purposes as indicated is proper.
- 10. Due to complexity of the restriction, a telephone call was not attempted.
- 11. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sin J. Lee whose telephone number is 571-272-1333.

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The examiner can normally be reached on Monday-Friday from 9:00 am EST to 5:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly, can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A. J. L.

S. Lee August 23, 2004 Sin J. Lee

Patent Exammer

Technology Center